S800 Intelligent Attendance and Access Control Terminal specification

Bozztek Technology（ Shenzhen） Co., Ltd.

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Specifications of Smart Attendance and Access Control Terminal S800

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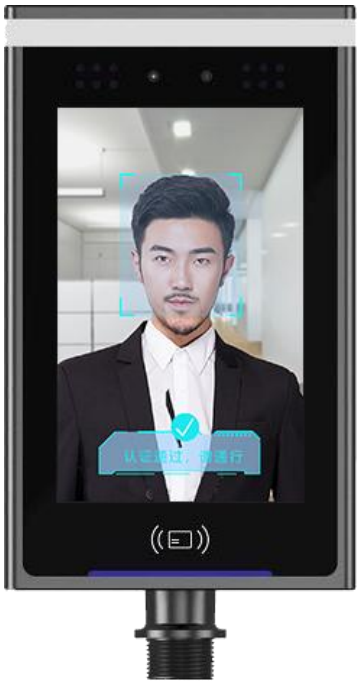


Wall-mounted model

1. application scenarios

The S800 intelligent terminal is a convenient and secure visual facial recognition device. Based on Kuangshis deep learning facial recognition algorithm, this product can be applied in access control scenarios such as smart communities, entry gates, facial attendance systems, hotels, office buildings, schools, and shopping malls, facilitating intelligent security management.

2. Product Features

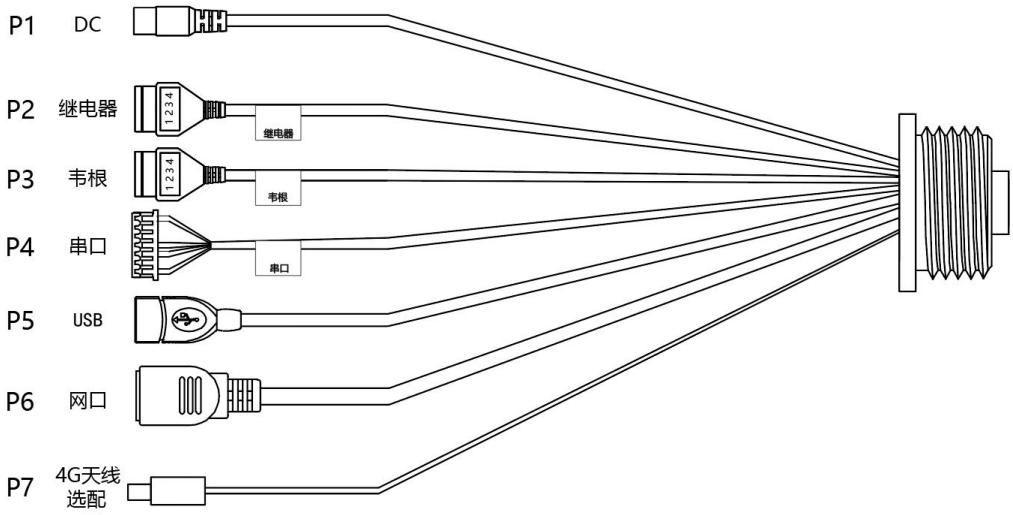
- The dual-core ARM Cortex-A53 processor delivers approximately 30% higher performance than the A7.
- With a computing power of up to 1.5TOPs, it delivers high utilization efficiency and low power consumption.
- An 8-inch HD IPS display with 800×1280 resolution.
- Binocular facial recognition with infrared liveness detection support;
- Super large facial database with support for 50,000 base images
- Ultra-fast recognition speed, completing live detection and facial recognition within 0.2 seconds;
- Exceptional environmental adaptability, delivering outstanding performance under low-light conditions and strong backlighting.
- Operating temperature: -10℃ to 60℃;
- Advanced hardware interfaces (Weigen, RJ45);
- Key features include IC card unlocking, remote unlocking, and facial recognition unlocking.
- IP65-rated dust and water resistance.

3. Product Specification Table

Intelligent Access Control and Attendance Terminal		
product model		S800
screen	size	8-inch, full-view, 170° IPS LCD
	resolution ratio	800*1280
	luminance	400cd/m²
parameter	CPU	Cortex-A53@1.0 GHz processor with Deep Learning Algorithm Accelerator (NPU) architecture
	RAM	512MB/1GB
	ROM	8G
network	internet access	RJ45 network port 100M
	WiFi	Optional (2.4G)
	4G	Optional (all-network compatible)
camera	pixel	Dual 200W pixel cameras
	minimal illumination	Color mode: 0.01 Lux @F1.2 (ICR); Black-and-white mode: 0.001 Lux @F1.2
	white balance	voluntarily
	wide dynamic range	≥105db
	Infrared supplementary lighting	Supports (850nm infrared lamp)
	White light supplementation	support
Face performance	Face recognition distance	0.5~2.5 meters
	Recognition speed	＜200ms
	Face database	512MB: 20,000 facial recognition database; 1GB: 50,000 facial recognition database
peripheral	swing card	NFC 13.56 MHz, compliant with ISO 14443 Type A/B standard protocol
	suona	8Ω，1W

	status lamp	Red, green, blue (breathing effect)
Tail wire interface	DC power interface	5.5mm*2.1mm DC12V
	electric relay	Dry node signal output
	Weigen	Weigen input interface
	gorge line	Serial TTL level
	USB	USB joggle
	internet access	RJ45 network port
	switching value	Dry junction signal
	4G antenna	4G antenna interface (optional)
Default parameters	source	DC12V（±10% ）
	working temperature	-10℃～60℃
	Working humidity	10%～90 %
	classification of waterproof	IP65
	electrostatic protection	Contact voltage ±6 kV, air voltage ±8 kV
	power dissipation	15W MAX
	way to install	Gate machine, bracket
	Device size	26.4cm*15.9cm*2.1cm
	weight	≈2.5kg

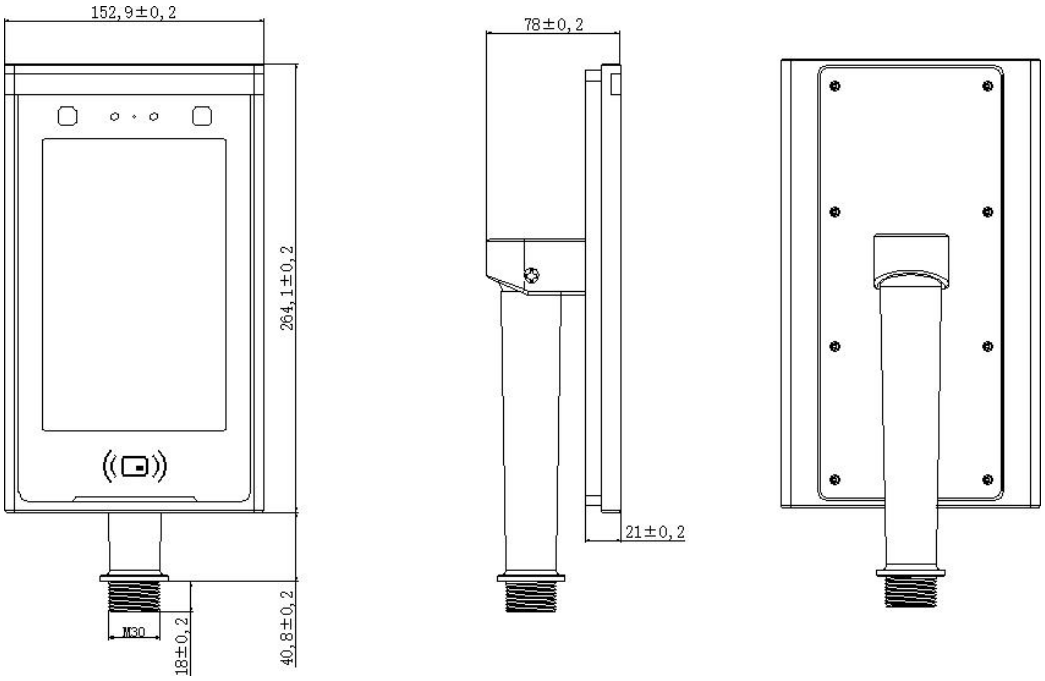
4. S800 Tail Line Interface



interface specification

order number	name	quantity	remarks
1	DC power interface	1	DC12V IN
2	electric relay	1	① NO ② COM ③ NC ④ IN2
3	Weigen	1	① D0 ② D1 ③ GND ④ 12V
4	gorge line	1	① 5V ④ TX ⑤ RX ⑦ GND
5	USB	1	USB 2.0 port
6	internet access	1	RJ45 network port
7	4G antenna interface （ apolegamy ）	1	SMA joggle

5. S800 Structural Dimension Diagram



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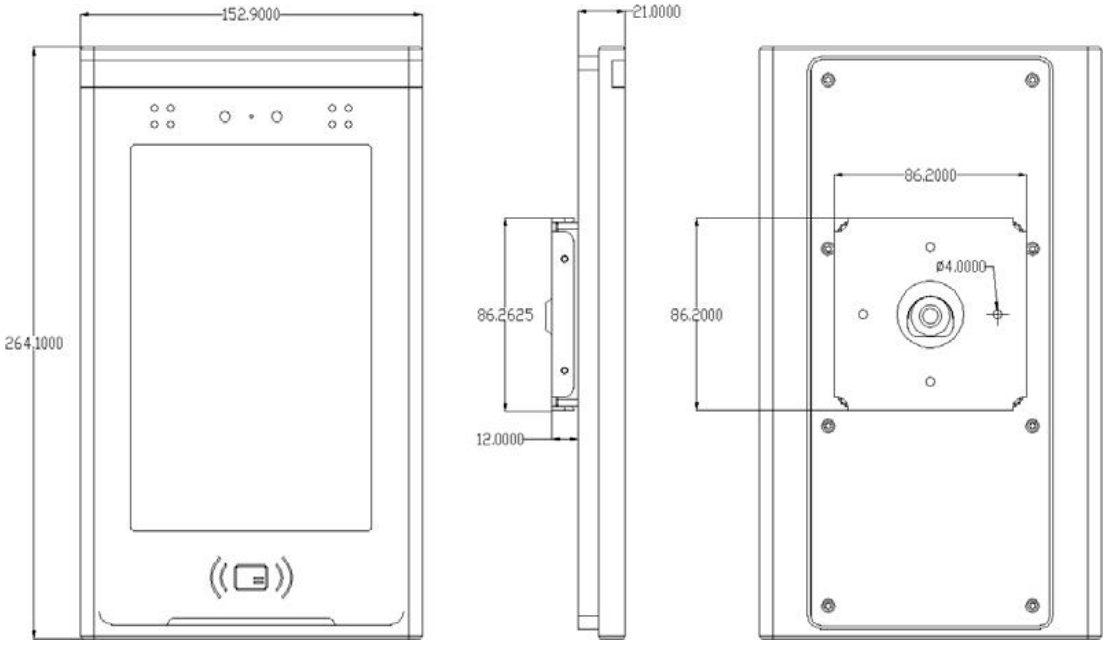

Wall-mounted model

6. Product Packaging and Instructions for Use

order number	Material/Tool Name	dosage	explain
1	Host and built-in accessories	1	The included accessories consist of: 12V power adapter, desiccant, inspection certificate, warranty card, etc.
2	Ethernet cable (optional: requires external purchase)	a surname	For Ethernet and other residual wiring deployment
3	Wire clamp, network tester, bevel pliers, electrical tape, wire clip (optional: requires external purchase)	a surname	For Ethernet and other residual wiring deployment

7. Installation Precautions

1. During actual wiring installation, if the hosts 12V power supply line does not use a dedicated power extension cable and has a long distance, resulting in excessive cable equivalent resistance, it may lead to abnormal phenomena such as insufficient terminal voltage (≤11V), repeated host restarts, and system crashes.
2. The installation environment must be absolutely dry, and strong electric currents as well as strong electromagnetic fields should be avoided. Electromagnetic appliances, mobile phones, and other portable electrical devices should be kept as far away from the equipment as possible.
3. This product is classified as a precision device. Avoid collisions, drops, and vibrations to prevent detachment of motherboard components or internal camera damage, which may lead to functional or performance issues.
4. The device comes with a built-in power adapter as shown in the figure, with a total length of 1.8 meters.

- The power cord extension should not exceed 3 meters, as exceeding this length may cause insufficient voltage supply to the devices main unit, resulting in abnormal phenomena such as repeated restarts and system crashes.
- Using other adapters (e.g., 9V/1A) may cause repeated device restarts due to insufficient

voltage or low current.

- The cables used should not be too thin (e.g., thin Ethernet cables). It is recommended to use parallel multi-strand cables of the same type or thicker copper-core cables to ensure a voltage>11V.

Note: If you are unsure how to extend the power supply, contact the supplier to replace it with a "dedicated power extension cable".